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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3	(gateway mobile foreign agent user profile dynamic packet filter).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/12/07 14:23
S2	1	(gateway mobile foreign agent user profile dynamic packet filter interruption).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/12/07 14:24
S3	1	(gateway mobile foreign agent dynamic packet filter interruption).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/12/07 14:24
S4	1	(gateway foreign agent dynamic packet filter interruption).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/12/07 14:24
S6	3	(foreign agent authentication authorization accounting session gateway dynamic).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/12/07 14:27

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	("20050102529").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/05 22:14
S2	1	("2005/0102529").URPN.	USPAT	OR	ON	2007/12/05 22:15
S4	3	(BUDDHIKOT, MILIND).in.	USPAT	AND	ON	2007/12/05 22:16
S5	0	(CHANDRANMENON, GIRISH).in.	USPAT	AND	ON	2007/12/05 22:16
S6	0	(HAN, SEUNG-JAE).in.	USPAT	AND	ON	2007/12/05 22:17
S8	0	(LEE, YUI-WAH).in.	USPAT	AND	ON	2007/12/05 22:17
S9	0	(MILLER, SCOTT "C.").in.	USPAT	AND	ON	2007/12/05 22:17
S10	4	(SALGARELLI, LUCA).in.	USPAT	AND	ON	2007/12/05 22:18
S11	1438	(726/26).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/07 13:53
S12	842	(713/153).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/05 22:18
S13	2254	S11 S12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/05 22:18
S14	1263	S13 and @ad<"20021022"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/07 13:53
S15	388	(726/13).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/07 13:53
S16	235	S15 and @ad<"20021022"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/07 14:15
S17	1444	(726/26).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/07 14:14

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S18	39	S17 and (packet with filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/07 14:14
S19	53	dynamic adj packet adj filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/07 14:15
S20	28	S19 and @ad<"20021022"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/07 14:17
S21	153319	(multi?layer or (multi adj layer)) packet with filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/07 14:16
S22	28	(multi?layer or (multi adj layer)) with packet with filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/07 14:16
S23	13	(S22 or S20) and profile	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/07 14:17
S24	588	(packet with filter) and profile and session and gateway	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/07 14:17
S25	316	S24 and @ad<"20021022"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/07 14:18
S26	17	packet with filter with user with profile	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/07 14:18

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S27	11	S26 and @ad<"20021022"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/07 14:18
S28	6	S27 and dynamic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/07 14:18



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Terms used: **foreign**

agent and **user** and **profile** and **session** and **authentication** and **authorization** and **accounting** and **dynamic a**
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Relevan

1 [Mobile networking in the Internet](#)

Charles E. Perkins

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(166.90 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index t](#)

Computers capable of attaching to the Internet from many places are likely to grow in popularity and dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to survey some of the many promising and interesting research directions. The papers in this special issue cover the diversity of viewpoints within the research community, and it is ...

2 [T1-A: next generation mobile networks symposium: Accounting management for session n](#) [an ubiquitous environment](#)

Srisakul Thakolsri, Christian Schaefer, Thomas Walter, Wolfgang Kellerer

July 2006 **Proceedings of the 2006 international conference on Wireless communication and mobile computing IWCMC '06**

Publisher: ACM Press

Full text available: [pdf\(344.41 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the convergence of the Internet and the mobile communications world, Internet-based services become available on any user device. In order to make efficient use of such a ubiquitous environment, user demands to access his personalized services from any place, anytime and on any device regardless of the type of access network. In particular, we consider the situation that a user transfers a running application between devices. We refer to this as session mobility. Providing such ubiquitous ...

Keywords: accounting, session mobility

3 [Accounting and management: Generic accounting configuration management for heterogeneous mobile networks](#)

Frank Eyermann, Peter Racz, Burkhard Stiller, Christian Schaefer, Thomas Walter

September 2005 **Proceedings of the 3rd ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '05**

Publisher: ACM Press

Full text available: [pdf\(252.81 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [rev](#)

Accounting performed by network and service providers covers the tasks of determining, collect evaluating information on the service usage of their customers. This information forms the basis subsequent charging process. For performing these tasks in case of heterogeneous mobile network generic configuration management, specifically tailored at the provisioning of various Internet services needed. This work defines a role model covering all participating entities of a distributed system ...

Keywords: accounting, accounting architecture, charging, hand-over, mobile network operator single bill

4 Best poster papers from MobiHoc 2002: Virtual operator based AAA in wireless LAN hot spots and ad-hoc networking support



Junbiao Zhang, Jun Li, Stephen Weinstein, Nan Tu

June 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 1

Publisher: ACM Press

Full text available: pdf(180.11 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Sound and effective authentication, authorization and accounting (AAA) schemes for convenient mobile wireless accesses are of great importance given the increased popularity and business opportunities in public wireless LAN hot spots. One possible scheme, which uses the mobile users' service provider as the single point of contact for all AAA transactions, is emerging as a very promising solution. With such service providers as "virtual operators". In this paper, we discuss various issues ...

5 A new architecture for 3G and WLAN integration and inter-system handover management

S. Mohanty

November 2006 **Wireless Networks**, Volume 12 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: pdf(405.31 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

WLAN has strong potential to provide a perfect broadband complement to the 3G wireless system. This has raised much interest in their integration. In this paper, a novel architecture using the Network Interoperating Agent (NIA), and Integration Gateway (IG) is proposed to integrate the 3G system with WLANs of various providers that may not necessarily have direct service level agreement (SLA) with them. The proposed architecture is scalable as it eliminates the need for the creation of bilateral agreements ...

Keywords: handover failure probability, integration of 3G wireless systems and WLANs, inter-system handover

6 A 4G generic ANWIRE system and service integration architecture



Ivan Ganchev, Máirtín S. O'Droma, Matthias Siebert, Faouzi Bader, Hakima Chaouchi, Ivan Armuel Demeure, Fintan McEvoy

January 2006 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 10 Issue 1

Publisher: ACM Press

Full text available: pdf(1.09 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes a 4G 'Generic ANWIRE system and service Integration Architecture' (GAIA). The relationship between the different GAIA domains is explained and interaction between their functional entities is shown in order to explore various GAIA properties. An overview of the relevant topics of the GAIA architecture and its respective elements is given. A well-based summary on system integration efforts of previous projects is provided as a basis for deriving of various requirements ...

7 Signalling analysis in integrated 4G networks

Hakima Chaouchi, Ivan Armuelles, Ivan Ganchev, Máirtín O'Droma, Nino Kubinidze

January 2006 **International Journal of Network Management**, Volume 16 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(517.12 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Scarce radio resources and the ambition to increase the number of mobile customers with a guaranteed service are pushing mobile communication systems from homogeneous non-service convergent convergent-service 2.5G and 3G wireless systems to heterogeneous integrated and convergent networks. This evolution has had several consequences from network design, control and service management points of view. In the emerging integrated 4G networks one of the issues is the situation of ...

8 [Ubiquitous device personalization and use: The next generation of IP multimedia communication](#)



Ron Shacham, Henning Schulzrinne, Srisakul Thakolsri, Wolfgang Kellerer

May 2007 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 3 Issue 2

Publisher: ACM Press

Full text available:  pdf(301.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Service usage in emerging ubiquitous environments includes seamless and personalized usage on private devices discovered in the vicinity of a user. In our work, we describe an architecture for discovery, device configuration, and the transfer of active sessions between devices. The presented architecture uses the Session Initiation Protocol (SIP) as a standardized, widely used signaling protocol for IP-based multimedia services. Our solution includes support of simple existing ...


Keywords: Internet multimedia, Location-based services, mobile communications, ubiquitous communication

9 [Network layer access control for context-aware IPv6 applications](#)

Adrian Friday, Maomao Wu, Joe Finney, Stefan Schmid, Keith Cheverst, Nigel Davies

July 2003 **Wireless Networks**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(3.57 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As part of the Lancaster GUIDE II project, we have developed a novel wireless access point protocol designed to support the development of next generation mobile context-aware applications in our environments. Once deployed, this architecture will allow ordinary citizens secure, accountable and controlled access to a set of tailored applications including location, multimedia and context based services: public Internet. Our architecture utilises packet marking and network level packet ...


Keywords: authentication, mobile IPv6, public access point, security, wireless Internet

10 [A composable framework for secure multi-modal access to internet services from Post-PC](#)

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  pdf(340.33 KB)



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telephones. However, existing deployed Internet services are geared toward the secure rich interface of private computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet services ...

Keywords: internet, middleware, post-PC, security, transcoding



11 [Global internet roaming with ROAMIP](#)

Zoltán R. Turányi, Csanád Szabó, Eszter Kail

-  July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue :
Publisher: ACM Press
Full text available:  [pdf\(1.19 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Reachability and session continuity represent two distinct services that global mobility protocols provide. Reachability is the possibility for Internet hosts to initiate sessions to mobile users. Session continuity refers to mechanisms that ensure that active transport or application layer sessions are not broken due to mobility. We present ROAMIP, a global mobility architecture that uses application layer solutions for global reachability and reuses transparent Mobile IP tunnelling mechanisms ...



12 Role-based access control on the web

-  Joon S. Park, Ravi Sandhu, Gail-Joon Ahn
February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1
Publisher: ACM Press
Full text available:  [pdf\(331.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Current approaches to access control on the Web servers do not scale to enterprise-wide systems. They are mostly based on individual user identities. Hence we were motivated by the need to more effectively enforce the strong and efficient RBAC access control technology in large-scale Web environments. To meet this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-push. To demonstrate feasibility, we implement and evaluate these architectures.

Keywords: WWW security, cookies, digital certificates, role-based access control



13 Unlinkable serial transactions: protocols and applications

-  Stuart G. Stubblebine, Paul F. Syverson, David M. Goldschlag
November 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 4
Publisher: ACM Press
Full text available:  [pdf\(184.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a protocol for unlinkable serial transactions suitable for a variety of network-based services. It is the first protocol to use cryptographic blinding to enable subscription services. This prevents the service from tracking the behavior of its customers, while protecting the service from abuse due to simultaneous or cloned use by a single subscriber. Our basic protocol structure and its implementation are robust against failure in protocol termination. ...

Keywords: anonymity, blinding, cryptographic protocols, unlinkable serial transactions

14 Privacy-enhanced, attack-resilient access control in pervasive computing environments with context authentication capability

-  Kui Ren, Wenjing Lou
January 2007 **Mobile Networks and Applications**, Volume 12 Issue 1
Publisher: ACM Press
Full text available:  [pdf\(413.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In pervasive computing environments (PCEs), privacy and security are two important but contradictory objectives. Users enjoy services provided in PCEs only after their privacy issues being sufficiently addressed. That is, users could not be tracked down for wherever they are and whatever they are doing. However, service providers always want to authenticate the users and make sure they are accessing authorized services in a legitimate way. In PCEs, such user authentication may include context authentication.

Keywords: access control, context authentication, pervasive computing environment (PCE), privacy, security

15 Session summaries from the 17th symposium on operating systems principle (SOSP'99)



Jay Lepreau, Eric Eide

April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(3.15 MB)

Additional Information: [full citation](#), [index terms](#)

16 A mobile computing middleware for location- and context-aware internet data services



Paolo Bellavista, Antonio Corradi, Rebecca Montanari, Cesare Stefanelli

November 2006 **ACM Transactions on Internet Technology (TOIT)**, Volume 6 Issue 4

Publisher: ACM Press

Full text available: pdf(316.77 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The widespread diffusion of mobile computing calls for novel services capable of providing results depend on both the current physical position of users (location) and the logical set of accessible subscribed services, preferences, and requirements (context). Leaving the burden of location/context management to applications complicates service design and development. In addition, traditional middleware solutions tend to hide location/context visibility to the application level and ...

Keywords: Mobile computing, adaptive services, context awareness, location awareness, middle mobile agents, policies

17 A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup

October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(276.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile wireless networks pose interesting challenges for routing system design. To produce feasible in a mobile wireless network, a routing system must be able to accommodate roving users, changing network topology, and fluctuating link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in routing in mobile wireless networks.

18 Services: A mobility-aware broadcasting infrastructure for a wireless internet with hotspots



Cristian Hesselman, Henk Eertink, Ing Widya, Erik Huizer

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03**

Publisher: ACM Press

Full text available: pdf(292.13 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we consider the problem of adaptively delivering live multimedia broadcasts (e.g. applications such as TV, radio, or e-cinema) to a potentially large number of mobile hosts that reside in a wireless internet with hotspots. We take a user-oriented approach based on an application-delivery infrastructure consisting of and managed by (value-added) service providers. The services are mobility-aware and offer broadcasts in configurations that are optimized for wireless ...


Keywords: hotspots/overlays, mobility, multimedia broadcasting, negotiation

19 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available:  [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, process diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial communication patterns.


20 [An integrated platform for reliable multicast support in the regional mobile-IP environment](#)



Hassan Omar, Tarek Saadawi, Myung Lee

April 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(167.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Supporting reliable delivery of multicast datagrams, in IP networks, may necessitate the introduction of new elements and features. Further, considerable additional signaling may be required to support these features. Providing a platform that efficiently supports IP multicast delivery, in an environment where the group members frequently change their locations, is a challenge for systems supporting mobility. In this paper, we describe a platform that allows the application of an internal mobility management protocol.

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